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ONTARIO TOMATO PRODUCTION UPDATE

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For

The Ontario Tomato Research Committee

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Ontario Tomato Production Update

World Production

Production of processing tomatoes by the world's leading countries is up 3 percent from 1986 and down significantly from the record harvest of 1984. Increases in production have occurred in France, Spain, Isreal and Turkey, while Mexico continues to expand its tomato production. Small yearly production decreases are continuing in Italy and Portugal while Taiwan showed a major decline in tomato production in 1987.

United States Processing Tomato Production

In 1986, California accounted for 88 percent of the total U.S. production of 7.39 million tons of processing tomatoes.

The average U.S. yield in 1986 was 29.3 tons per acre, with California at 30.8 tons, Ohio 26.0 tons, Michigan 24.7 tons and Indiana at 21.6 tons per acre.

The contracted acreage for 1987 is 256,980, up slightly from the harvested acres of 252,060 in 1986. Contracted tonnage is set at 7.468 million tons up 2 percent from 1986. Recent reports show that California has record yields made possible by the purchase of over-contract tonnage by processors. Harvest in Ohio and Indiana was slowed by adverse weather but these states along with Michigan were expected to meet their tonnage contracts.

For the first time in five years the carryover of tomato products was at their lowest level. Processed tomato imports in the U.S. during 1986-87, showed a considerable reduction. With only average tomato production in Europe and the Middle East, combined with a declining U.S. dollar could again reduce importation in the 1987-88 period. It appears that the U.S. processed tomato pack for 1987 will be marketed with a manageable carry-over into 1988 production year.

Ontario Production

With the exception of a small acreage in Quebec, Ontario's production continues to be over 99 percent of Canada's processing tomato yield (Table 3).

In 1986, Ontario tomato production, including processing and fresh market (both field and greenhouse grown), accounted for 131.4 million dollars or 40 percent of the province's income of 328.0 million dollars from vegetable sales (Table 5).

In 1986, the Essex-Kent area grew 82 percent of the Ontario acreage and 83 percent of the production. In comparison, Norfolk grew 10 percent of the acreage and produced 9 percent of the tonnage, with Prince Edward growing 2 percent for 2 percent of the production (Table 6).

With a higher acreage in 1987, the final yield of processing tomatoes will be slightly lower then the 20.1 ton per acre achieved in 1986. Ontario processors on average did not reach their expected pack for all tomato products due to weather extremes experienced during this years' harvest.

The export of tomato juice from Ontario has been very encouraging with a record volume being shipped in 1986. This market is continuing into 1987 with the possibility of another record year (Table 9).

In 1986, reduced quantities of processing tomato products entered Ontario. To the end of August, 1987, importations seem to be following close to those of the previous year (Table 9).

In recent years, there have been some changes in the area of origin for processed tomato products coming into Ontario. In 1983, 46 percent of all tomato products came from the United States, 38 percent from Europe, 6 percent from Asia, 6 percent from Mexico and 4 percent from South America. In 1986, imports from the United States have decreased to 39 percent, while those from Europe have decreased to 25 percent. Increases have occurred from Mexico at 14 percent, Asia 8 percent with South America remaining at 4 percent (Table 10).

In the period December '86 to May '87, stocks of both canned tomatoes and juice declined well below previous year's supplies. Only the supplies of pulp paste and puree were at higher levels (Table 11).

For the first time in recent years, the per capita consumption of all tomato products in 1985 showed a decline over the previous year. Contributions to this decline were canned tomatoes and juice (Table 12).

Fresh Market Tomato Production in Ontario

The production of field grown fresh market tomatoes in 1986 reached record levels both in acreage of 5,462 acres and total value of 40.8 million dollars. Acreage has increased steadily since the late seventies, with the central Ontario area showing the greatest increase (Table 16).

In 1986, the fresh market tomato acreage was distributed as follows: Southern Ontario 48 percent compared to 53 percent in 1982; Western Ontario 3 percent compared to 17 percent in 1982; Central Ontario 47 percent compared to 25 percent in 1982 and Eastern Ontario 2 percent compared to 5 percent in 1982 (Table 16).

A demand for pick-your-own vegetables in the heavily populated Oshawa -Toronto-Hamilton corridor continues the shift of acreage into the Central Ontario area. Fresh market tomato production in Southern Ontario each year is being faced by competition for the earlier production of processing tomatoes being marketed before factory openings. The sudden flush of the early picked processing tomatoes often depresses the market with a slow recovery.

In the 1987, cost of production estimates, hired labour at $882. per acre plus containers at 1,386 accounted for 62 percent of total costs of $3,657 per acre (Table 18).

Comparison of Processing Tomato Production Costs in Ontario, Ohio and California

Over the years, the Economics and Policy Coordination Branch has carried out comprehensive studies of major field and horticultural crops, including both processing and fresh market tomatoes grown in Ontario.

In the past, information was collected by means of farmer interviews. With this extensive background in cost studies, updates are now made through consultations with extension, research, and industry personnel along with the use of computers.

The estimated cost of production for processing tomatoes in Ontario, hand and machine harvest, for 1987 are found in Table 13. The estimated gross margin (using 1982-86 average yield of 18.6 tons/acre) is $496 per acre for hand harvest and $1,072 per acre for machine harvest. Gross margin is the amount above operating or variable costs that the processing tomato crop contributes to the operator for wages, management and to the investment in machinery and land.

For comparison, processing costs of production in Ohio for 1987 (hand and machine harvest) are presented in Table 14.

Processing tomato, machine harvest costs for California, 1987 are presented in Table 15.

Table 1. - World Tomato Production, Major Producers, 1984, 1986, 1987 Estimated

Country	1984	1985	1986	1987	% Change 1987-1986
			thousand metric tons		
United States	6,968	6,511	6,707	6,775	+1
Canada	534	492	474	475	+0
Mexico	375	250	300	370	+23
Italy	5,600	3,785	3,240	3,150	-3
Greece	1,570	1,650	1,149	1,180	+3
France	355	392	242	290	+20
Spain	1,008	819	618	761	+23
Portugal	736	716	545	500	-8
Israel	265	257	186	220	+18
Turkey	1,000	1,100	700	900	+28
Taiwan	631	362	334	310	-19
Total	19,042	16,334	14,545	14,931	+3

Source: The California Tomato Grower and Foreign Agricultural Service, U.S.D.A.

Table 2. - Processing Tomato Production by State in the United States, 1986 and 1987

State	1986 Harvested Acres	1986 Yield/Acre Tons	1987 Contract Acres*
California	210,400	30.8	213,000
Colorado	650	16.7	740
Indiana	6,400	21.6	6,400
Maryland	1,800	13.9	1,700
Michigan	5,400	24.7	5,200
New Jersey	3,000	17.4	3,100
Ohio	14,800	26.0	16,500
Pennsylvannia	2,900	17.6	3,200
Other States	6,710	17.5	7,140
TOTAL	252,060	29.3	256,980

Source: Vegetables, Crop Reporting Board, U.S.D.A.

*Contracted production is 7,467,810 tons. If achieved would be an increase of 2 percent over 1986's harvested tonnage of 7,315,230 tons.

Table 3. - Processing Tomato Production in Canada, 1985-1987

Year & Area	Acres	Production (tons)	$
1987 (Contract acres & estimated tonnage)			
Ontario	28,294	537,586	N/A
Quebec	526	N/A	N/A
Canada	28,820		
1986 (Harvested acres)			
Ontario	26,814	539,097	$60,021,000
Quebec	487	1,976	233,000
Canada	27,301	541,073	$60,254,000
1985 (Harvested acres)			
Ontario	26,163	523,198	$58,791,000
Quebec	405	6,005	609,000
Canada	26,568	529,203	$59,400,000

Source: Statistics Canada, Cat. 22-003, "Fruit and Vegetable Production" and Ontario Vegetable Growers' Marketing Board.

N/A - not available

Table 4. - Value of All Tomatoes Grown by Province and Percent of Canadian Total, 1986

	Processing		Fresh Market		Greenhouse	
	$'000	As % of Total	$'000	As % of Total	$'000	As % of Total
Ontario	$60,021	99.6	$40,843	86.7	$24,499	69.4
P.E.I. (a)	--	--	20	X	185	.5
Nova Scotia	--	--	--	--	834	2.4
New Brunswick	--	--	--	--	332	.9
Quebec	233	.4	6,180	13.1	2,705	7.7
Manitoba	--	--	74	.2	(b)	(b)
Saskatchewan	--	--	--	--	(b)	(b)
Alberta	--	--	--	--	467	1.3
British Columbia	--	--	--	--	6,195	17.6
Canada	$60,254	100.%	$47,117	100.%	$35,299	100.%

Source: Statistics Canada, Cat. 22-003 and Cat. 22-202

(a) For greenhouse includes production from Newfoundland

(b) Amounts to $81,948 between Manitoba and Saskatchewan and amounts to .2% of the Canadian total.

X less than .1%

Table 5
Farm Cash Receipts, Tomatoes in Relation to Other Cash Crops, Ontario
1978-82, 1983-1986

	Average 1978-82	1983	1984	1985	1986
			$ '000		
Tomatoes					
Processing	44,382	45,736	66,625	58,791	66,021
Fresh	9,454	14,146	20,937	19,533	40,843
Greenhouse	17,025	20,347	16,370	14,147	24,499
Total Tomatoes	70,861	80,229	103,932	92,471	131,363
Proc. Cucumbers	7,615	6,480	8,100	7,608	7,690
Proc. Sweet Corn	9,169	12,122	14,200	13,217	11,104
Proc. Peas	8,821	4,800	10,500	12,333	7,674
Other Vegetables	114,410	167,928	157,770	182,645	170,140
Fruits	92,272	109,555	108,351	112,577	105,600
Floriculture and Nursery	145,623	172,378	202,200	235,593	220,307
Wheat	81,336	91,511	111,715	136,617	119,264
Soybeans	167,210	246,926	205,169	229,769	240,337
Corn	278,945	460,039	400,177	400,758	305,937
Dry Beans	32,328	14,666	25,414	26,484	23,364
Potatoes	38,328	53,149	46,322	39,331	39,893
Tobacco	287,533	249,414	322,020	118,367	415,073
Other Crops	107,103	94,042	153,001	183,013	98,239
Crop Insurance	25,968	78,896	18,275	12,088	22,596
Total (a)	1,468,022	1,842,635	1,892,146	1,802,871	1,918,581

Source: Agricultural Statistics for Ontario, Publication 20

N.B. Receipts are based on calendar year sales (Jan. 1 to Dec. 31).

a) Total receipts vary and are subject to revisions due to delayed crop payments and payments under the Agricultural Stabilization Act. For updated revisions always check latest copy of Publication 20.

Table 6. - Processing Tomato Production by Area, Ontario, 1976 and 1986

Area	Acres		Production (tons)		Yield/Acre(tons)	
	1976	1986	1976	1986	1976	1986
Essex and Kent	16,478	21,644	318,177	448,466	19.3	20.7
Norfolk	2,664	2,564	52,747	47,434	19.8	18.5
Prince Edward	1,407	552	12,100	9,715	8.6	17.6
Others	1,593	1,711	27,465	33,482	17.2	19.6
Ontario	22,142	26,471	410,489	539,097	19.6	20.4

Source: Ontario Vegetable Growers' Marketing Board, Agricultural Statistics for Ontario - Publication 20, and Statistics Canada - Cat. 22-003

Table 7. - Processing Tomato Production in Ontario, 1964 to 1987

Crop Year	Acres Grown	Production		Gross returns per	
		Total	Per Acre	Acre ($)	Ton ($)
1964-68	22,833	325,645	14.2	$ 615	$ 43.10
1969-73	19,779	338,131	17.5	806	47.15
1974-78	22,526	410,234	18.2	1,446	79.25
1979	22,824	455,152	19.9	1,717	86.13
1980	24,153	417,349	17.3	1,564	90.52
1981	26,733	496,338	18.6	1,855	98.87
1982	27,358	520,155	19.0	2,079	109.35
1983	28,006	413,716	14.7	1,611	109.31
1984	31,899	593,413	18.6	2,088	112.27
1985	26,776	523,198	19.5	2,196	112.37
1986	26,814	539,097	20.1	2,238	111.34
1987*	28,294	537,586	19.0	N/A	N/A
1979-83	25,827	460,542	17.8	1,763	98.86

Source: Ontario Vegetable Growers' Marketing Board, Agricultural Statistics for Ontario - Publication 20, and Statistics Canada - Cat. 22-003.

*Estimated

N/A not available

Table 8. - Canadian Imports of Tomato Products, 1971 to 1987

Year	Canned	Paste & Puree	Juice	Total Tomato Products, lbs.*
1987 (Jan. to August)	21,542,606	42,927,052	375,812	64,845,470
1986	44,570,612	61,876,929	506,669	106,954,210
1985	67,058,662	65,549,650	448,320	133,056,633
1984	61,716,844	73,381,876	210,331	135,309,051
1983	49,017,184	72,329,023	807,473	122,153,680
1982	77,319,144	58,291,049	1,363,098	136,973,291
1981	80,310,961	77,747,110	2,592,980	160,651,051
1980	59,667,166	58,275,018	2,495,334	120,437,518
1979	71,678,826	76,233,018	2,590,213	150,502,057
1978	69,076,814	66,414,689	2,384,051	137,875,554
1977	66,710,899	55,054,611	4,243,838	126,009,348
1976	95,912,826	51,166,103	4,495,804	151,574,733
1975	81,161,454	42,098,804	2,071,195	125,331,453
1974	74,651,698	68,395,213	2,192,545	145,239,456
1973	55,515,473	61,606,490	6,510,028	123,631,991
1972	47,425,110	45,490,105	2,501,346	95,417,061
1971	41,383,868	42,528,107	1,192,295	85,104,270

Source: Imports by Commodities, Statistics Canada No. 65-007

*Does not include ketchup, soups or other products containing tomatoes.

Table 9. - International Trade for Tomatoes, Ontario, 1983 to 1987

Product	1983		1984		1985		1986		1987 Jan.-Aug.	
	Quantity '000 lbs.	Value $'000	Quantity '000 lbs.	Value $'000	Quantity '000 lbs.	Value $'000	Quantity '000 lbs.	Value $'000	Quantity '000 lbs.	Value $'000
Exports										
Fresh Tomatoes	1,104	416	1,991	1,021	1,206	706	1,786	1,068	1,863	1,316
Tomato Juice	546	217	1,947	590	3,099	937	6,954	2,150	4,745	1,491
Imports										
Fresh Tomatoes	139,575	38,411	112,644	37,935	125,029	43,574	133,328	49,870	90,027	30,581
Tomato Juice	157	35	213	46	161	448	56	11	24	4
Tomato Paste	44,945	21,777	47,864	23,198	42,220	18,401	38,076	16,962	26,657	11,094
Tomatoes, Canned	7,897	2,205	9,740	2,541	13,634	3,244	6,489	1,794	3,768	1,117
Ketchup	233	76	553	196	N.R.		907	412	756	470

Source: Publication 20, Agricultural Statistics for Ontario and Statistics Canada

N.R. Not recorded

Table 10 Ontario Tomato Product Importation by Weight from Area of Origin, 1983-86

Area of Origin	All Tomato Products				Canned Tomatoes				Tomato Paste				Tomato Juice			
	1983	1984	1985	1986	1983	1984	1985	1986	1983	1984	1985	1986	1983	1984	1985	1986
	Percent of Total															
South America	4	11	5	4	--	--	--	--	5	13	7	5	--	--	--	--
Mexico	6	8	11	14	--	--	--	--	7	10	15	17				
United States	46	38	35	39	45	22	23	30	46	41	38	40	98	98	98	100
Greece	1	2	x	x	--	--	--	--	1	3	1	1	--	--	--	--
Italy	12	5	15	15	7	6	29	40	13	5	10	11	--	--	--	--
Portugal	18	21	17	15	7	18	1	x	20	21	22	17	--	--	--	--
Spain	6	8	11	4	40	49	43	24	--	--	x	x	--	--	--	--
Other Europe	1	x	x	x	--	--	--	1	1	x	x	x	--	--	--	--
Israel	x	2	2	1	1	5	4	5	--	2	1	x	2	3	2	--
Turkey	6	5	4	7	--	--	--	--	7	5	6	8	--	--	--	--
Other Asia	--	x	--	--	--	x	--	--	--	x	--	--	--	--	--	--
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

x = less than 1/2 of 1 percent

-- none recorded

Table 11. - Tomato Stocks on Hand in Canada

Date	Number of Cases ('000)			Thousands of Pounds		
	Canned Tomatoes	Juices	Pulp, Paste & Puree	Canned Tomatoes	Juices	Pulp, Paste & Puree
May '87	742	1,316	721	26,500	39,344	47,524
Dec. '86	2,215	3,630	1,212	82,180	109,499	33,973
March '86	1,818	2,639	1,031	69,150	81,040	20,544
Dec. '85	2,788	4,115	1,289	106,510	125,688	29,605
June '85	1,337	1,912	569	49,359	60,458	11,121
Dec. '84	2,827	4,867	1,080	105,975	148,134	26,748
June '84	728	1,735	561	27,058	50,676	11,602

Source: Statistics Canada, Catalogue No. 32-100, "Canned and Frozen Fruits and Vegetables - Monthly"

Table 12. - Per Capita Consumption of Tomato Products, Canada, 1972 to 1985

Year	Total, All Tomato Products	Canned Tomatoes	Tomato Ketchup*	Pulp, Paste, Puree	Tomato Juice
	Pounds per capita per annum (retail weight)				
1985	23.2	7.3	4.8	4.2	6.9
1984	24.3	7.8	4.7	4.1	7.7
1983	24.1	8.1	4.7	3.7	7.6
1982	22.6	6.8	4.6	3.3	7.9
1981	23.8	7.4	4.7	3.6	8.1
1980	23.9	7.1	4.7	2.7	9.4
1979	25.1	7.4	4.7	3.3	9.7
1978	24.2	6.8	4.6	2.9	9.9
1977	23.2	6.1	4.5	2.0	10.6
1976	22.2	7.0	5.2	1.8	8.2
1975	21.7	5.8	5.2	1.8	8.9
1974	24.5	7.4	5.1	3.1	8.9

Source: Statistics Canada, Catalogue No. 32-230 Annual "Apparent per Capita Food Consumption in Canada"

*1978-1985, the amounts for tomato ketchup were estimated.

Table 13. - Tomatoes for Processing, Hand & Machine Harvest, Estimated Costs of Production, Ontario, 1987

	Cost per Acre, $	
	Hand Harvest	Machine Harvest
Yield (5-yr. avg. 1982-86)	18.6 tons	18.6 tons
Returns @ $110.61/ton; $108.37/ton	$2,057/acre	$2,016/acre
Operating (Variable) Costs	**Dollars per Acre**	
Hired labor (135 hrs.) (30 hrs.)	$ 719	$ 160
Plants (9,100) (13,500)	180	266
Fertilizer: plant starter	6	6
N,P, & K	75	69
Herbicides	26	25
Insecticides & fungicides - custom applied	151	--
- materials only	--	88
Basket use for picking	49	--
Other materials	9	32
Tractor & machines costs	90	193
Custom hauling	149	--
Crop insurance	49	51
Marketing board and grading fees	33	33
Interest on operating capital	25	21
TOTAL	$1,561	$ 944
FIXED COSTS		
Operator labor (7.3 hrs.) (7.7 hrs.)	52	55
Management allowance, 5% of gross income	103	101
Tractor and machine costs	97	609
Land rental charges	175	225
Other overhead	15	15
TOTAL	$ 442	$1,005
TOTAL ALL COSTS: per ACRE	$2,003	$1,949
per TON	$107.69	$104.78
RETURN ABOVE OPERATING COSTS	$ 496	$1,072
RETURN ABOVE TOTAL COST	$ 54	$ 67

Source: 1987 Vegetable Crops, Estimated Production Costs, Ontario, Economics and Policy Coordination Branch, Ontario Ministry of Agriculture and Food

Table 14. - Tomatoes for Processing, Hand & Machine Harvest, Estimated Costs of Production, Ohio, 1987

	Cost per Acre, $	
	Hand Harvest	Machine Harvest
Assumed Yield	20 tons	20 tons
Returns @ $72.00/TON	$1,440	$1,440
Operating (Variable) Costs	Dollars per Acre (Canadian)	
Hired labor	$ 618	$ 161
Plants (8,000) (11,500)	120	173
Fertilizer: plant starter	6	6
N,P, & K	68	63
Lime	7	7
Herbicides	36	36
Insecticides & fungicides	82	95
Baskets for picking	15	--
Other materials	4	18
Tractor & machine costs	35	81
Custom spraying	44	39
Custom hauling	140	140
Crop insurance	23	23
Inspection fees	6	6
Interest on operating capital	21	23
Miscellaneous	7	7
TOTAL	$1,232	$ 878
Fixed (overhead) Costs		
Operator labor	$ 54	$ 72
Management allowance	72	72
Tractor and machine costs	43	243
Land charge	150	150
Housing charge (for hired labor)	53	21
TOTAL	$ 372	$ 558
TOTAL ALL COSTS: per ACRE	$1,604	$1,436
per TON	$ 80.20	$ 71.08
RETURN ABOVE OPERATING COSTS	$ 208	$ 562
RETURN ABOVE TOTAL COSTS	$-(164)	$ 4

Source: Ohio Crop Enterprise Budgets, Specialty Crops, 1987 from Ohio Cooperative Extension Service and the Ohio State University.

Table 15. - Processing Tomatoes, Machine Harvest, Budgeted Production Costs, California, 1987
(Based on 700 acres using two electronic harvesters)

	Costs per Acre, $
Assumed Yield	25 tons
Returns (average per ton 1986 returns, $80.60)	$2,015
	Dollars per Acre (Canadian)
Operating (Variable Costs)	
Hired labor (35.3 hrs.)	$ 249
Seed	98
Fertilizer: starter	35
other fertilizer	39
Other materials (pesticides, ethephon, etc.)	201
Water	78
Tractor and machine costs	185
Custom work	140
Crop insurance	78
Inspection fees	7
Production loan interest	40
Miscellaneous (small equip. use, bldg. repairs, etc.)	52
TOTAL	$1,202
Fixed (Overhead) Costs	
Supervisor's wages	99
Management allowance (5% of gross income)	100
Tractor and machine	225
Buildings	7
Landlord's share (16% of gross income)	244
TOTAL	675
TOTAL COSTS: per Acre	$1,875
per Ton	$75.08
RETURN ABOVE OPERATING COST	$ 813
RETURN ABOVE TOTAL COSTS	$ 140

Source: Adapted from report " Sample Cost of Production, 1987 Woodland Area" U.C. Cooperative Extension, Yolo county, California, January 1987.

Table 16. - Field Tomatoes for Fresh Market - Production and Value by Area - Ontario

	Southern Ontario			Western Ontario		
	Area	Marketed Production	Total Value	Area	Marketed Production	Total Value
	Ac.	'000 lbs.	$'000	Ac.	'000 lbs.	$'000
1986	2,597	60,713	16,920	163	4,521	1,248
1985	2,285	39,272	6,827	143	1,389	517
1984	1,676	36,140	6,418	508	10,360	1,837
1983	1,725	37,045	5,418	557	10,160	2,005
1982	1,694	39,457	6,582	547	6,564	1,120
1982-86	1,995	42,525	8,433	384	6,599	1,345

	Central Ontario			Eastern Ontario		
	Area	Marketed Production	Total Value	Area	Marketed Production	Total Value
	Ac.	'000 lbs.	$'000	Ac.	'000 lbs.	$'000
1986	2,574	84,082	22,122	128	2,044	554
1985	2,264	58,550	11,625	113	2,463	564
1984	2,330	43,270	11,704	112	3,619	980
1983	1,935	35,123	9,425	109	3,088	703
1982	790	13,104	2,338	158	2,085	718
1982-86	1,979	46,826	11,443	124	2,660	704

	Ontario		
	Area	Marketed Production	Total Value
	Ac.	'000 lbs.	$'000
1986	5,462	151,360	40,843
1985	4,805	101,674	19,533
1984	4,526	93,389	20,937
1983	4,326	85,416	17,552
1982	3,201	61,265	10,775
1982-86	4,484	98,621	21,928

Source: Seasonal Fruit & Vegetable, Annual Report No. 208A - Ontario Ministry of Agriculture and Food

Table 17. - Per Capita Consumption for Fresh Market Tomatoes, Retail Weight, Canada and United States

Year	Canada	United States
	lbs. per person per year	
1985	15.2	N/A
1984	16.1	13.7
1983	15.4	11.6
1982	11.7	11.8
1981	11.9	11.2
1980	12.8	11.4
1979	12.9	11.0
1978	12.7	11.2
1977	11.5	10.5
1976	11.8	10.7
1975	11.3	10.1
Average:		
1980-84	13.6	11.9
1975-79	12.0	10.7

Source: Vegetable Outlook and Situation Yearbook, U.S.D.A.
Statistics Canada, Apparent per Capita Food Consumption in Canada, Cat. 32-230, Annual

N/A Not Available

Table 18. - Field Tomatoes For Fresh Market, Estimated Costs of Production, Ontario, 1987

Yield (5-yr. avg. 1982-86)	10.2 tons
	Dollars per Acre
Returns (2-yr. avg. prices 1984-85 @ $415/ton)	$4,233
Operating (Variable) Costs	
Hired labor (169 hrs.)	$ 882
Plants (10,000)	250
Fertilizer: plant starter	5
N,P,K	96
Herbicides	5
Insecticides	14
Fungicide	67
Containers, non-returnable (900)	1,386
Use of picking baskets	20
Tractor & machines (repairs, maintenance & fuel)	160
Interest on operating capital	72
TOTAL	$2,957
Fixed Costs	
Operator labor (16 hrs.)	$108
Management allowance, 5% of gross returns	212
Tractor and machine costs	233
Land charges (interest and taxes)	122
Other overhead	25
TOTAL	$ 700
TOTAL ALL COSTS: per ACRE	$3,657
per TON	$358.53
per POUND	$ .18
RETURN ABOVE OPERATING COSTS	$1,276/Acre
RETURN ABOVE TOTAL COSTS	$ 576/Acre

Source: 1987 Vegetable Crops, Estimated Production Costs, Ontario, Economics and Policy Coordination Branch, Ontario Ministry of Agriculture and Food